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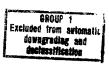
TSD/VOG MEMO NO. 81-69 14 May 1969

MEMORANDUM I	FOR:	DD/ORD			
ATTENTION	1]	
SUBJECT	:	Night Vis	ual Su	rveillance	Equipment
REQUIREMENT	DESI	NATION			

- 1. There exists a continuing need in TSD for equipment that will allow visual surveillance of selected areas under low illumination conditions. These conditions include those of low ambient light level of the type usually labeled "starlight" and range to situations where the light level is low due to target placement, e.g. in between buildings or due to concealment of the optics. Presently available equipment consists generally of first generation image intensifiers cascaded to produce the desired intensification. The disadvantages of these devices are their weight, size, power requirements, resolution and blocking characteristics (especially when caused by stray light).
- 2. It is felt that this requirement should not be considered mutually exclusive of T II-2-69 and T II-7-69 which are concerned with a night photographic capability and the penetration of obscured targets. A device that improves on the defects of Starlight scope type devices is the channel plate image intensifier which is finding application in image stabilized, intensified binoculars, Cinticon TV tubes and image intensified photographic cameras. An image intensifier made by Zenith Corporation and employing a channel plate intensifier points out the direction that further work should take. This work should be directed towards a device with improved resolution (greater than 30 1/mm on axis), smaller size and weight and capable of operating under high as well as low light levels and free from blooming.

3.	The proble	em of night	: surveillance	was	discussed with	
Messrs.			ORD/OS by		of TSD.	25X
It was	agreed that	present wo	rk being done	at		25X

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towards an image intensified photographic camera and image intensified vidicon as well as the work on a image intensified binocular system are areas that are in support of this requirement and that efforts directed towards improved resolution and smaller channel plates should be continued. While no direct ORD participation in a purely visual capability is anticipated the above cited work and the programs conducted by night vision Laboratories will be closely watched and any device that would be capable of incorporation into a purely visual system will be brought to the attention of TSD. The reason for no direct participation is the extensive work already being conducted in this area by Right Vision Labs. It was therefore agreed that work on related program requirements would keep in mind visual problems and that this requirement should be maintained as a parameter to be considered by OFD in its activities.

4	.	ANY	questions	concerning	this	requirement	Pay	be	dir-	
ected	to			_	_					25X1

Program Manager For Visual Surveillance 25X1

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C/TSU/DAE

Distribution: Orig. & 1 - Addressee

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